



STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM
205 JEFFERSON STREET, P.O. BOX 176
JEFFERSON CITY, MISSOURI 65102

EMISSIONS INVENTORY QUESTIONNAIRE (EIQ)
FORM 2.4 PETROLEUM LIQUID LOADING WORKSHEET

SHADED AREAS FOR OFFICE USE ONLY

NOTE:

THIS FORM SHOULD BE USED TO CALCULATE THE EMISSIONS FROM LOADING ORGANIC LIQUIDS INTO TANK TRUCKS, RAIL TANK CARS AND BARGES. FORM 2.5 SHOULD BE USED TO CALCULATE THE LOAD IN-LOAD OUT EMISSIONS FROM THE STORAGE TANKS.

FACILITY NAME	FIPS COUNTY NO.	PLANT NO.	YEAR OF DATA
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[1] LOADING INFORMATION

POINT NO.	AIRS ID-PT	SOURCE CLASSIFICATION CODE (SCC)	SEG NO.
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ANNUAL THROUGHPUT OF LIQUID (1,000 GALLONS)	CONTROL DEVICE TYPE	CONTROL EFFICIENCY (%)
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TYPE OF LOADING

- ☐ SPLASH LOADING ☐ SUBMERGED LOADING ☐ BOTTOM LOADING
☐ OTHER, SPECIFY BELOW

[2] CHEMICAL INFORMATION

BULK LIQUID TYPE	MOLECULAR WT OF MATERIAL LOADED (LB/LB-MOLE)
TRUE VAPOR PRESSURE OF BULK LIQUID (PSIA)	SATURATION FACTOR

TEMPERATURE OF LIQUID (DEG R) = DEGREES FAHRENHEIT + 460 DEGREES FAHRENHEIT

[3] LOADING LOSS EMISSION FACTOR CALCULATION

LOADING LOSS EMISSION FACTOR =

$$12.46 \times \{\text{MOLECULAR WT}\} \times \{\text{TRUE VAPOR PRESSURE}\} \times \{\text{SATURATION}\} / \{\text{TEMPERATURE (DEG R)}\}$$

LOADING LOSS EMISSION FACTOR	UNITS LBS PER 1000 GALLONS
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ENTER THE CONTROL EFFICIENCY (5) FROM SECTION 1 IN BLOCK 3 ON FORM 2.0. ENTER THE ANNUAL THROUGHPUT OF LIQUID FROM SECTION 1, EXPRESSED IN THOUSANDS OF GALLONS, IN BLOCK 4 ON FORM 2.0. ENTER THE LOADING LOSS EMISSION FACTOR (BLOCK 3) IN THE VOC BOX OF BLOCK 7 ON FORM 2.0.

REMEMBER WHEN CALCULATING EMISSIONS, USE A SEPARATE FORM 2.0, EMISSION POINT INFORMATION, FOR EACH TYPE OF LIQUID LOADED IN THE TANK DURING THE YEAR. USE THE SAME POINT NUMBER BUT WITH THE SCC THAT CORRESPONDS TO THE DIFFERENT LIQUID TYPE.

INSTRUCTIONS

FORM 2.4 PETROLEUM LIQUID LOADING WORKSHEET

This form is **REQUIRED** only if a facility needs to calculate the volatile organic compound (VOC) emission factor for petroleum liquid loading into tank trucks, rail cars or barges.

If the Source Classification Code (SCC) emission factor is being used, Block 2, CHEMICAL INFORMATION, on Form 2.4 should be completed for each petroleum liquid loading operation. If SCC emission factors are not being used, you need to fill out this document completely.

NOTE: Tables, Figures and other attachments are not included with these instructions. Please refer to EPA Manual AP-42, Section 5 and 7, or contact the Air Pollution Control Program at (573) 751-4817.

Complete **Facility Name**, **FIPS County Number**, **Plant Number** and **Year of Data**.
See Form 1.0 instructions, page 1.0-1.

1) LOADING INFORMATION

Point Number: This number is the unique identification number for each specific petroleum loading station. This identification number must match the point number entered on Form 1.1, Process Flow Diagram; Form 1.2, Summary of Emission Points; and Form 2.0, Emission Point Information.

AIRS ID-Pt and Seg No.: To be completed by the APCP.

SCC Number: List the SCC that identifies the type of process/liquid associated with this emission point.

Annual Throughput of Liquid (1,000 Gallons): This figure is the amount of petroleum liquid loaded into tank trucks, rail tank cars or barges expressed in thousands of gallons per year.

Control Device Type: Describe any air pollution control device(s) used to reduce the amount of the VOCs emitted.

Control Efficiency (%): Enter how effective the control equipment is in reducing the amount of the VOCs released.

Type of Loading: Check the appropriate box to show which type of loading is used at your facility. If Other is selected, please specify the type of loading used.

2) CHEMICAL INFORMATION

Bulk Liquid Type: This is the name of a specific petroleum product that is being transferred from where it is stored into a tank truck, rail tank car or barge. If more than one type of petroleum liquid has been loaded into a tank truck, rail tank car or barge during the year from this emission point, a separate Form 2.0 must be completed to calculate emissions